

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of the claims in the present application.

Listing of Claims:

1. (Currently Amended) A device for waking up at least one targeted user of a bus system without waking up all of the users of the bus system, comprising:
 - a detection device for implementing a two-step wake-up procedure including:
 - performing a first step of transmitting a message on the bus system for detecting at least one predefined signal feature of [[a]] the message ~~transmitted on the bus system~~ and determining, as a function of a data pattern encoded within the message, the at least one targeted user as an intended target; and
 - if a preselected number of occurrences of the at least one predefined signal feature of the message has been reached, performing a second step of retransmitting the message on the bus system and determining one of a number of the users to be awakened and a group of users to be awakened based on the message;
 - wherein a length of the message is at least two bits,
 - wherein the at least one predefined signal feature is assigned to the at least one targeted user, and
 - ~~wherein the detection device initiates a further step of the wake-up procedure that includes identifying, as a function of a data pattern encoded within the message, the at least one targeted user as an intended target, the further step of the wake-up procedure being initiated only after a preselected number of occurrences of the at least one predefined signal feature of the message has been reached, and~~
 - wherein the preselected number of occurrences of the at least one predefined signal feature is greater than one.
2. (Canceled).
3. (Original) The device according to claim 1, wherein the at least one signal feature includes at least one of an edge and an edge change of a signal.
4. (Original) The device according to claim 1, wherein the at least one signal feature includes at least one of a signal level and a preselected combination of a plurality of signal levels.

5. (Currently Amended) A targeted user of a bus system, comprising:
a detection device for implementing a two-step wake-up procedure including:
performing a first step of transmitting a message on the bus system for
detecting at least one predefined signal feature of [[a]] the message transmitted on the
bus system and determining, as a function of a data pattern encoded within the
message, the at least one targeted user as an intended target; and
if a preselected number of occurrences of the at least one predefined signal
feature of the message has been reached, performing a second step of retransmitting
the message on the bus system and determining one of a number of the users to be
awakened and a group of users to be awakened based on the message;
wherein a length of the message is at least two bits,
wherein the at least one predefined signal feature is assigned to the targeted user,
whereby users of the bus system not associated with the at least one predefined signal feature
do not detect the at least one predefined signal feature, and
~~wherein the detection device initiates a further step of the wake-up procedure that~~
~~includes identifying, as a function of a data pattern encoded within the message, the targeted~~
~~user as an intended target, the further step of the wake-up procedure being initiated only after~~
~~a preselected number of occurrences of the at least one predefined signal feature of the~~
~~message has been reached, and~~
wherein the preselected number of occurrences of the at least one predefined signal
feature is greater than one.
6. (Canceled).
7. (Currently Amended) A method for waking up at least one targeted user of a bus
system without waking up all of the users of the bus system, the method comprising:
(a) transmitting a message on the bus system;
(b) ~~performing a first step of a two-step wake-up procedure by~~ detecting, by the at
least one targeted user, at least one predefined signal feature of [[a]] ~~the message transmitted~~
~~on the bus system,~~ wherein the at least one predefined signal feature is assigned to the at least
one targeted user; and
(c) if a preselected number of occurrences of the at least one predefined signal feature
of the message has been reached, retransmitting the message on the bus system; and
(d) determining one of a number of the users to be awakened and a group of users to
be awakened based on the message,
~~initiating a further step of the wake-up procedure that includes identifying, as a~~
~~function of a data pattern encoded within the message, the at least one targeted user as an~~
~~intended target, the further step of the wake-up procedure being initiated only after a~~

~~preselected number of occurrences of the at least one predefined signal feature of the message has been reached;~~

wherein a length of the message is at least two bits, and

wherein the preselected number of occurrences of the at least one predefined signal feature is greater than one.

8. (Previously Presented) The method according to claim 7, wherein the message is evaluated for a possible wake-up message once the at least one predefined signal feature is detected.

9. (Original) The method according to claim 7, further comprising determining a time duration when the signal feature occurs for a first time.

10. (Original) The method according to claim 7, wherein binary information results from a time duration following a first occurrence of the signal feature.

11. (Canceled).

12. (Canceled).

13. (Currently Amended) A targeted user of a bus system, comprising:
a detection device for implementing a two-step wake-up procedure including:
performing a first step of transmitting a message on the bus system for
detecting at least one predefined signal feature of ~~[[a]] the message transmitted on the~~
~~bus system and determining, as a function of a data pattern encoded within the~~
~~message, the at least one targeted user as an intended target; and~~
if a preselected number of occurrences of the at least one predefined signal
feature of the message has been reached, performing a second step of retransmitting
the message on the bus system and determining one of a number of the users to be
awakened and a group of users to be awakened based on the message;
wherein a length of the message is at least two bits,
wherein the at least one predefined signal feature is assigned to the targeted user, and
~~wherein the detection device initiates a further step of the wake-up procedure that~~
~~includes identifying, as a function of a data pattern encoded within the message, the targeted~~
~~user as an intended target, the further step of the wake-up procedure being initiated only after~~
~~a preselected number of occurrences of the at least one predefined signal feature of the~~
~~message has been reached; and~~
wherein the preselected number of occurrences of the at least one predefined signal feature is greater than one.